

FORM PTO-1449

APR 20 2001

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P A T E N T & T R A D E M A R K  
O F F I C EATTY. DOCKET NO.  
0942.4680003APPLICATION NO.  
09/517,466APPLICANT  
Hartley et al.FILING DATE  
March 2, 2000GROUP  
1655

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
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	AD						
DBS	AE4	5,286,632	02/15/1994	Jones	435	91.2	01/09/1991
DBS	AF4	5,650,308	07/22/1997	Baum	435	172.3	06/07/1995
DBS	AG4	6,143,557	11/07/2000	Hartley et al.	435	320.1	01/20/1999
	AH						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
DBS	AO4	WO 94/09127	04/28/1994	PCT			Yes No
DBS	AP4	WO 98/53056	11/26/1998	PCT			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
DBS	AS	67	Albert, H., et al., "Site-specific integration of DNA into wild-type and mutant lox sites placed in the plant genome," <i>Plant J.</i> 7:649-659 Oxford Bios Scientific Publishers And Blackwell Scientific Publications In Association With The Society For Experimental Biology (1995).
DBS	AT	67	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," <i>BioTechniques</i> 21:320-323, Eaton Publishing Company (1996).

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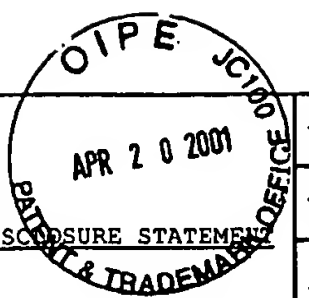
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<i>nm</i>	AL5	WO 99/21977	05/06/1999	PCT			Yes No
	AM5	WO 99/25851	05/27/1999	PCT			Yes No
	AN5	WO 99/55851	11/04/1999	PCT			Yes No
	AO5	WO 01/05961 A1	01/25/2001	PCT			Yes No
<i>nm</i>	AP5	WO 01/11058 A1	02/15/2001	PCT			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>nm</i>	AR	<u>68</u>	Dale, E.C., and Ow, D.W., "Mutations in the Cre/lox recombination site enhance the stability of recombination products: Applications for gene targeting in plants," J. Cell. Biochem. 16(Suppl. F):206, Abstract No. Y 108, Wiley-Liss, Inc. (1992).
<i>nm</i>	AS	<u>68</u>	Davies, J., and Riechmann, L., "An antibody VH domain with a lox-Cre site integrated into its coding region: bacterial recombination within a single polypeptide chain," FEBS Lett. 377:92-96, Federation of European Biochemical Societies (1995).
<i>nm</i>	AT	<u>68</u>	Hall, R.M., and Collis, C.M., "Mobile gene cassettes and integrons: capture and spread of genes by site-specific recombination," Mol. Microbiol. 15:593-600, Blackwell Scientific Publications (1995).

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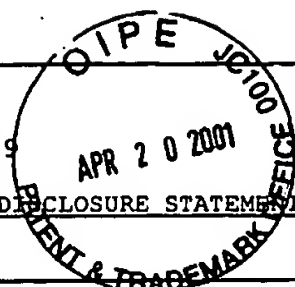
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>69</u>	Krafte, D.S., et al., "Stable Expression and Functional Characterization of a Human Cardiac Na <sup>+</sup> Channel Gene in Mammalian Cells," J. Mol. Cell Cardiol. 27:823-830, Academic Press Limited (1995).
	AS	<u>69</u>	Lee, G., and Saito, I., "Role of nucleotide sequences of loxP spacer region in Cre-mediated recombination," Gene 216:55-65, Elsevier Science B.V. (August 1998).
	AT	<u>69</u>	Venkatesh, T.V., and Redding, C.M., "Ribosomal Protein S1 and NusA Protein Complexed to Recombination Protein $\beta$ of Phage $\lambda$ ," J. Bacteriol. 175:1844-1846, American Society for Microbiology (1993).

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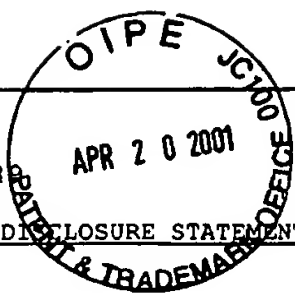
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	AP						Yes No

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<i>nm</i>	AR	70	Zahra, D.G., et al., "Selective in-vivo recombination to increase antibody library size - an improved phage display vector system," Gene 227:49-54, Elsevier Science Publishers B.V. (February 1999).
<i>nm</i>	AS	70	Dialog File 351 (Derwent World Patents Index), unverified English language abstract for WIPO/PCT Publication No. WO 98/53056 (Document No. AP4); WPI Accession No. 1999-000502/199901.
<i>nm</i>	AT	70	Dialog File 351 (Derwent World Patents Index), unverified English language abstract for WIPO/PCT Publication No. WO 99/25851 (Document No. AM5); WPI Accession No. 1999-347485/199929.

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
mm	AL6	EP 0 220 009	04/29/1987	Europe			Yes No
1	AM6	WO 90/11375	10/04/1990	WIPO			Yes No
1	AN6	EP 0 427 074	05/15/1991	Europe			Yes No
1	AO6	WO 91/09957	07/11/1991	WIPO			Yes No
mm	AP6	WO 92/15694	09/17/1992	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm	AR	71	Akagi, K., et al., "Cre-mediated somatic site-specific recombination in mice," Nucl. Acids Res. 25:1781-1788, Oxford University Press (1997).
mm	AS	71	Aladjem, M.I., et al., "Positive Selection of FLP-Mediated Unequal Sister Chromatid Exchange Products in Mammalian Cells," Mol. Cell. Biol. 17:857-861, American Society for Microbiology (1997).
mm	AT	71	Angelastro, J.M., et al., "Identification of diverse nerve growth factor-regulated genes by serial analysis of gene expression (SAGE) profiling," Proc. Natl. Acad. Sci. USA 97:10424-10429, National Academy of Sciences (September 2000).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
nmj	AL7	WO 92/22650	12/23/1992	WIPO			Yes No
	AM7	EP 0 542 466	05/19/1993	Europe			Yes No
	AN7	WO 94/03624	02/17/1994	WIPO			Yes No
	AO7	WO 94/18333	08/18/1994	WIPO			Yes No
nmj	AP7	WO 96/04393	02/15/1996	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

nmj	AR	72	Angrand, P.O., et al., "Inducible expression based on regulated recombination: a single vector strategy for stable expression in cultured cells," Nucl. Acids Res. 26:3263-3269, Oxford University Press (July 1998).
nmj	AS	72	Ayres, E.K., et al., "Precise Deletions in Large Bacterial Genomes by Vector-mediated Excision (VEX). The trfA Gene of Promiscuous Plasmid RK2 is Essential for Replication in Several Gram-negative Hosts," J. Mol. Biol. 230:174-185, Academic Press (1993).
nmj	AT	72	Backman, K., et al., "Use of Synchronous Site-Specific Recombination In Vivo to Regulate Gene Expression," Bio/Technology 2:1045-1049, Nature Publishing Company (1984).

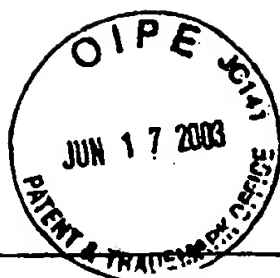
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>msd</i>	AL8	WO 96/30498	10/03/1996	WIPO			Yes No
	AM8	WO 96/40724	12/19/1996	WIPO			Yes No
	AN8	WO 00/60091	10/12/2000	WIPO			Yes No
	AO8	WO 01/07572	02/01/2001	WIPO			Yes No
<i>msd</i>	AP8	WO 01/62892	08/30/2001	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>msd</i>	AR	73	Bai, C., et al., "SKP1 Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif, the F-Box," Cell 86:263-274, Cell Press (1996).
<i>msd</i>	AS	73	Bernard, P., et al., "The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," J. Mol. Biol. 234:534-541, Academic Press (1993).
<i>msd</i>	AT	73	Boshart, M., et al., "A Very Strong Enhancer is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," Cell 41:521-530, The MIT Press (1985).

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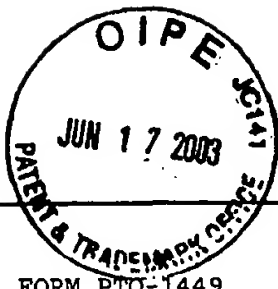
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mmj	AL9	WO 02/05294	01/17/2002	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mmj	AR	74	Bouhassira, E.E., et al., "Transcriptional Behavior of LCR Enhancer Elements Integrated at the Same Chromosomal Locus by Recombinase-Mediated Cassette Exchange," <i>Blood</i> 90:3332-3344, The American Society of Hematology (1997).
mmj	AS	74	Burioni, R., et al., "An improved phage display vector for antibody repertoire cloning by construction of combinatorial libraries," <i>Res. Virol.</i> 148:161-164, Elsevier (1997).
mmj	AT	74	Capone, J.P., et al., "Introduction of UAG, UAA, and UGA Nonsense Mutations at a Specific Site in the <i>Escherichia coli</i> Chloramphenicol Acetyltransferase Gene: Use in Measurement of Amber, Ochre, and Opal Suppression in Mammalian Cells," <i>Mol. Cell. Biol.</i> 6:3059-3067, American Society for Microbiology (1986).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DM	AR	75	Chanock, R.M., et al., "Human Monoclonal Antibody Fab Fragments Cloned from Combinatorial Libraries: Potential Usefulness in Prevention and/or Treatment of Major Human Viral Diseases," <i>Infect. Agents Dis.</i> 2:118-131, Raven Press (1993).
DM	AS	75	Chong, S., et al., "Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element," <i>Gene</i> 192:271-281, Elsevier Science B.V. (1997).
DM	AT	75	Choulika, A., et al., "Transfer of Single Gene-Containing Long Terminal Repeats into the Genome of Mammalian Cells by a Retroviral Vector Carrying the cre Gene and the loxP Site," <i>J. Virol.</i> 70:1792-1798, American Society for Microbiology (1996).

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mm	AR	76	Chuang, C.-F., et al., "Specific and heritable genetic interference by double-stranded RNA in <i>Arabidopsis thaliana</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 97:4985-4990, National Academy of Sciences (April 2000).
mm	AS	76	Cigan, A.M., et al., "Mutational Analysis of the <i>HIS4</i> Translational Initiator Region in <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 8:2964-2975, American Society for Microbiology (1988).
DB	AT	76	CLONTECH, "Creator™ Gene Cloning & Expression System," <i>CLONTECHniques</i> 15:7-11, CLONTECH, (April 2000).

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	AR	77	CLONTECH, "New Additions to the Creator™ Platform," CLONTECHniques 16:4 pages, CLONTECH, (January 2001).
	AS	77	CLONTECH, "New Creator™ -Compatible Expression Systems," CLONTECHniques 15:2 pages, CLONTECH, (October 2000).
	AT	77	CLONTECH, "Creator™ Acceptor Vector Construction Kit" CLONTECHniques 16:2 pages, CLONTECH, (October 2001).
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<i>nmD</i>	AR	<u>78</u>	CLONTECH, "Creator™ SMART™ Library Construction Kit," CLONTECHniques 16:2 pages, CLONTECH, (October 2001).
<i>nmD</i>	AS	<u>78</u>	CLONTECH, "Creator™: The Universal Platform for Analysis of Gene Function," Powerpoint Presentation, 9 pages, CLONTECH, (July 24, 2001), available at <a href="http://www.clontech.com/products/families/creator/popups/slpage1.html">http://www.clontech.com/products/families/creator/popups/slpage1.html</a> .
<i>nmD</i>	AT	<u>78</u>	CLONTECH, "Creator™ pDNR-Dual Cloning Kit," CLONTECHniques 16:3 pages, CLONTECH, (October 2001).

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	79	Curcio, M.J., and Garfinkel, D.J., "Single-step selection for Tyl element retrotransposition," Proc. Natl. Acad. Sci. USA 88:936-940, National Academy of Sciences (1991).
	AS	79	Datson, N.A., et al., "MicroSAGE: a modified procedure for serial analysis of gene expression in limited amounts of tissue," Nucl. Acids Res. 27:1300-1307, Oxford University Press (March 1999).
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FORM PTO-1449  <u>THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
	APPLICANT Hartley et al.	
	FILING DATE March 2, 2000	GROUP 1634

U.S. PATENT DOCUMENTS							
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	80	Deng, M.-D., and Coleman, J.R., "Ethanol Synthesis by Genetic Engineering in Cyanobacteria," Appl. Environ. Microbiol. 65:523-528, American Society for Microbiology (February 1999).
	AS	80	Derbyshire, V., and Belfort, M., "Lightning strikes twice: Intron-intein coincidence," Proc. Natl. Acad. Sci. USA 95:1356-1357, National Academy of Sciences of the USA (February 1998).
	AT	80	Dijkema, R., et al., "Cloning and expression of the chromosomal immune interferon gene of the rat," EMBO J. 4:761-767, IRL Press Limited (1985).

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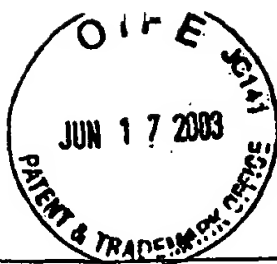
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>81</u>	Esposito, D., et al., "The integrase family of tyrosine recombinases: evolution of a conserved active site domain," Nucl. Acids Res. 25:3605-3614, Oxford University Press (1997).
	AS	<u>81</u>	Flanagan, P.M., and Fennwald, M.A., "Analysis of Inhibitors of the Site-specific Recombination Reaction Mediated by Tn3 Resolvase," J. Mol. Biol. 206:295-304, Academic Press (1989).
	AT	<u>81</u>	Flores, A., et al., "A protein-protein interaction map of yeast RNA polymerase III," Proc. Natl. Acad. Sci. USA 96:7815-7820, National Academy of Sciences (July 1999).

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	AR	82	Francia, M.V., et al., "The IntI1 Integron Integrase Preferentially Binds Single-Stranded DNA of the attC Site," J. Bacteriol. 181:6844-6849, American Society for Microbiology (November 1999).
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	AR	83	Gay, P. et al., "Cloning Structural Gene <i>sacB</i> , Which Codes for Exoenzyme Levansucrase of <i>Bacillus subtilis</i> : Expression of the Gene in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 153:1424-1431, American Society for Microbiology (1983).
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	AT	83	Grindly, N.D.F., and Kelley, W.S., "Effects of Different Alleles of the <i>E. coli</i> K12 <i>polA</i> Gene on the Replication of Non-transferring Plasmids," <i>Molec. Gen. Genet.</i> 143:311-318, Springer Verlag (1976).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	84	Gronostajski, R.M., and Sadowski, P.D., "The FLP Protein of the 2-micron Plasmid of Yeast. Inter- and Intramolecular Reactions," J. Biol. Chem. 260:12328-12335, The American Society of Biological Chemists, Inc. (1985).
	AS	84	Haffter, P., and Bickle, T.A., "Enhancer-independent mutants of the Cin recombinase have a relaxed topological specificity," EMBO J. 7:3991-3996, IRL Press Limited (1988).
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	85	Hehl, R., et al., "Structural analysis of Tam3, a transposable element from Antirrhinum majus, reveals homologies to the Ac element from maize," Plant Molec. Biol. 16:369-371, Kluwer Academic Publishers (1991).
	AS	85	Henikoff, S., "Unidirectional digestion with exonuclease III creates targeted breakpoints for DNA sequencing," Gene 28:351-359, Elsevier Science Publishers (1984).
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	86	Hoess, R.H., and Abremski, K., "Interaction of the Bacteriophage P1 Recombinase Cre with the Recombining Site loxP," Proc. Natl. Acad. Sci. USA 81:1026-1029, National Academy of Sciences (1984).
	AS	86	Iida, S., et al., "A site-specific, conservative recombination system carried by bacteriophage P1. Mapping of the recombinase gene cin and the crossover sites cix for the inversion of the C segment," EMBO J. 1:1445-1453, IRL Press Limited (1982).
	AT	86	Kaniga, K., et al., "A wide-host-range suicide vector for improving reverse genetics in Gram-negative bacteria: inactivation of the blaA Gene of Yersinia enterocolitica," Gene 109:137-141, Elsevier Science B.V. (1991).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	87	Kealey, J.T., et al., "Production of polyketide natural product in nonpolyketide-producing prokaryotic and eukaryotic hosts," Proc. Natl. Acad. Sci. USA 95:505-509, National Academy of Sciences (January 1998).
	AS	87	Kholodenko, B.N., et al., "Metabolic Design: How to Engineer a Living Cell to Desired Metabolite Concentrations and Fluxes," Biotechnol. Bioengineer. 59:239-247, John Wiley & Sons, Inc. (1998).
	AT	87	Kim, D.W., et al., "Use of the human elongation factor 1 $\alpha$ promoter as a versatile and efficient expression system," Gene 91:217-223, Elsevier Science B. V. (1990).

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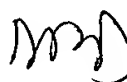
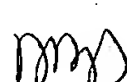

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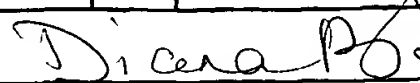
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	AR	88	Kolb, A.F., and Siddell, S.G., "Genomic targeting with an MBP-Cre fusion protein," Gene 183:53-60, Elsevier Science B.V. (1996).
	AS	88	Kouprina, N., et al., "Rescue of Targeted Regions of Mammalian Chromosomes by in Vivo Recombination in Yeast," Genome Res. 8:666-672, Cold Spring Harbor Laboratory Press (June 1998).
	AT	88	Krautwald, S., and Baccarini, M., "Bacterially Expressed Murine CSF-1 Possesses Agonistic Activity in its Monomeric Form," Biochem. Biophys. Res. Commun. 192: 720-727, Academic Press, Inc. (1993).

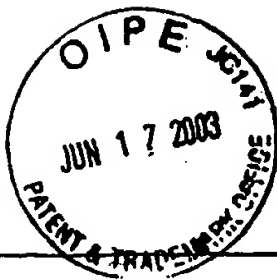
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	89	Leslie, N.R., and Sherratt, D.J., "Site-specific recombination in the replication terminus region of <i>Escherichia coli</i> : functional replacement of dif," <i>EMBO J.</i> 14:1561-1570, Oxford University Press (1995).
	AS	89	Leung, L.L.K., "Application of Combinatorial Libraries and Protein Engineering to the Discovery of Novel Anti-Thrombotic Drugs," <i>Thromb. Haemost.</i> 74:373-376, F.K. Schattauer Verlagsgesellschaft mbH (1995).
	AT	89	Li, Z.-W., et al., "Generation of mice with a 200-kb amyloid precursor protein gene deletion by Cre recombinase-mediated site-specific recombination in embryonic stem cells," <i>Proc. Natl. Acad. Sci. USA</i> 93:6158-6162, National Academy of Sciences (1996).
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

nmj	AR	90	Lu, F., and Churchward, G., "Conjugative transposition: Tn916 integrase contains two independent DNA binding domains that recognize different DNA sequences," <i>EMBO J.</i> 13:1541-1548, Oxford University Press (1994).
DBJ	AS	90	Madison, L.L., and Huisman, G.W., "Metabolic Engineering of Poly(3-Hydroxyalkanoates): From DNA to Plastic," <i>Microbiol. Mol. Biol. Reviews</i> 63:21-53, American Society for Microbiology (March 1999).
DBJ	AT	90	Maemura, K., et al., "Generation of a Dominant-negative Mutant of Endothelial PAS Domain Protein 1 by Deletion of a Potent C-terminal Transactivation Domain," <i>J. Biol. Chem.</i> 274:31565-31570, The American Society for Biochemistry and Molecular Biology, Inc. (October 1999).

EXAMINER <i>Diana P. [Signature]</i>	DATE CONSIDERED 1/23/04
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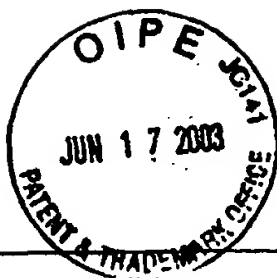
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nm	AR	91	Mahillon, J., et al., "Subdivision of the <i>Escherichia coli</i> K-12 genome for sequencing: manipulation and DNA sequence of transposable elements introducing unique restriction sites," <i>Gene</i> 223:47-54, Elsevier Science B.V. (November 1998).
nm	AS	91	Malynn, B.A., et al., "The scid Defect Affects the Final Step of the Immunoglobulin VDJ Recombinase Mechanism," <i>Cell</i> 54:453-460, Cell Press (1988).
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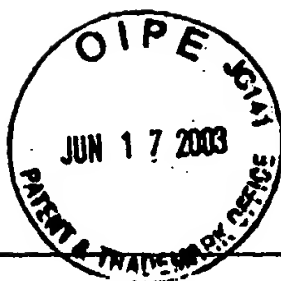
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	92	Mendiola, M.V., and de la Cruz, F., "Specificity of insertion of IS91, an insertion sequence present in $\alpha$ -haemolysis plasmids of <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 3:979-984, Blackwell Scientific Publications (1989).
	AS	92	Mercier, J., et al., "Structural and Functional Characterization of <i>tnpI</i> , a Recombinase Locus in Tn21 and Related $\beta$ -Lactamase Transposons," <i>J. Bacteriol.</i> 172:3745-3757, American Society for Microbiology (1990).
	AT	92	Metcalf, W.W., et al., "Conditionally Replicative and Conjugative Plasmids Carrying <i>lacZ</i> $\alpha$ for Cloning, Mutagenesis, and Allele Replacement in Bacteria," <i>Plasmid</i> 35:1-13, Academic Press (1996).

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FORM PTO-1449  <u>THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.4680003/RWE/BJD/JKM	APPLICATION NO. 09/517,466
	APPLICANT Hartley et al.	
	FILING DATE March 2, 2000	GROUP 1634

## U.S. PATENT DOCUMENTS

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	AM						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>93</u>	Mette, M.F., et al., "Transcriptional silencing and promoter methylation triggered by double-stranded RNA," <i>EMBO J.</i> 19:5194-5201, Oxford University Press (October 2000).
	AS	<u>93</u>	Meyer-Leon, L., et al., "Purification of the FLP site-specific recombinase by affinity chromatography and re-examination of basic properties of the system," <i>Nucl. Acids Res.</i> 15:6469-6488, IRL Press Limited (1987).
	AT	<u>93</u>	Mizushima, S., and Nagata, S., "pEF-BOS, a powerful mammalian expression vector," <i>Nucl. Acids Res.</i> 18:5322, Oxford University Press (1990).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>94</u>	Nagy, A., "Cre Recombinase: The Universal Reagent for Genome Tailoring," <i>Genesis</i> 26:99-109, Wiley-Liss, Inc. (February 2000).
	AS	<u>94</u>	Odell, J.T., et al., "Seed-Specific Gene Activation Mediated by the Cre/lox Site-Specific Recombination System," <i>Plant Physiol.</i> 106:447-458, American Society of Plant Physiologists (1994).
	AT	<u>94</u>	O'Gara, J.P., et al., "Identification and Molecular Genetic Analysis of Multiple Loci Contributing to High-Level Tellurite Resistance in <i>Rhodobacter sphaeroides</i> 2.4.1," <i>Appl. Environ. Microbiol.</i> 63:4713-4720, American Society for Microbiology (1997).

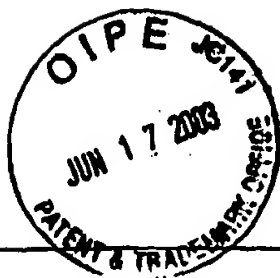
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gm	AR	95	Pal, S.K., et al., "P1 Plasmid Replication. Role of Initiator Titration in Copy Number Control," <i>J. Mol. Biol.</i> 192:275-285, Academic Press (1986).
gm	AS	95	Panke, S., et al., "Engineering of Quasi-Natural <i>Pseudomonas putida</i> Strains for Toluene Metabolism through an ortho-Cleavage Degradation Pathway," <i>Appl. Environ. Microbiol.</i> 64:748-751, American Society for Microbiology (February 1998).
gm	AT	95	Patel, P.H., and Loeb, L.A., "DNA polymerase active site is highly mutable: Evolutionary consequences," <i>Proc. Natl. Acad. Sci. USA</i> 97:5095-5100, National Academy of Sciences (May 2000).

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	AR	<u>96</u>	Perler, F.B., "InBase, the New England Biolabs Intein Database," Nucl. Acids Res. 27:346-347, Oxford University Press (January 1999).
	AS	<u>96</u>	Persson, M.A.A., "Combinatorial Libraries," Intern. Rev. Immunol. 10:153-163, Harwood Academic Publishers GmbH (1993).
	AT	<u>96</u>	Phillips-Jones, M.K., et al., "Context Effects on Misreading and Suppression at UAG Codons in Human Cells," Mol. Cell. Biol. 15:6593-6600, American Society for Microbiology (1995).

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	AR	97	Powell, J., "Enhanced concatemer cloning-a modification to the SAGE (Serial Analysis of Gene Expression) technique," Nucl. Acids Res. 26:3445-3446, Oxford University Press (July 1998).
	AS	97	Prieto, M.A., et al., "Molecular Characterization of the 4-Hydroxyphenylacetate Catabolic Pathway of Escherichia coli W: Engineering a Mobile Aromatic Degradative Cluster," J. Bacteriol. 178:111-120, American Society for Microbiology (1996).
	AT	97	Qin, M., et al., "Cre recombinase-mediated site-specific recombination between plant chromosomes," Proc. Natl. Acad. Sci. USA 91:1706-1710, National Academy of Sciences (1994).

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DRJ	AR	98	Qin, M., et al., "Site-specific cleavage of chromosomes in vitro through Cre-lox recombination," Nucl. Acids Res. 23:1923-1927, Oxford University Press (1995).
DRJ	AS	98	Ross, W., and Landy, A., "Patterns of $\lambda$ Int Recognition in the Regions of Strand Exchange," Cell 33:261-272, The MIT Press (1983).
DRJ	AT	98	Sandhu, J.S., "Protein Engineering of Antibodies," Crit. Rev. Biotechnol. 12:437-462, CRC Press (1992).

EXAMINER <i>Diana [Signature]</i>	DATE CONSIDERED 1/23/04
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	99	Sato, T., et al., "The <i>cisA</i> Cistron of <i>Bacillus subtilis</i> Sporulation Gene <i>spoIVC</i> Encodes a Protein Homologous to a Site-Specific Recombinase," <i>J. Bacteriol.</i> 172:1092-1098, American Society for Microbiology (1990).
	AS	99	Sauer, B., et al., "Construction of Isogenic Cell Lines Expressing Human and Rat Angiotensin II AT <sub>1</sub> Receptors by Cre-Mediated Site-Specific Recombination," <i>Methods: A Companion to Methods in Enzymology</i> 4:143-149, Academic Press (1992).
	AT	99	Schild, D., et al., "Cloning of three human multifunction <i>de novo</i> purine biosynthetic genes by functional complementation of yeast mutations," <i>Proc. Natl. Acad. Sci. USA</i> 87:2916-2920, National Academy of Sciences (1990).

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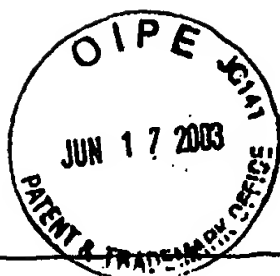
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>100</u>	Schnepf, E., et al., "Bacillus thuringiensis and Its Pesticidal Crystal Proteins," <i>Microbiol. Mol. Biol. Rev.</i> 62:775-806, American Society for Microbiology (September 1998).
	AS	<u>100</u>	Segall, A.M., et al., "Architectural elements in nucleoprotein complexes: interchangeability of specific and non-specific DNA binding proteins," <i>EMBO J.</i> 13:4536-4548, Oxford University Press (1994).
	AT	<u>100</u>	Shim, J., et al., "Distinct and Redundant Functions of $\mu$ 1 Medium Chains of the AP-1 Clathrin-Associated Protein Complex in the Nematode <i>Caenorhabditis elegans</i> ," <i>Mol. Biol. Cell</i> 11:2743-2756, The American Society for Cell Biology (August 2000).

EXAMINER 	DATE CONSIDERED 11/23/04
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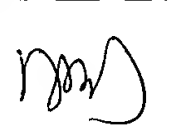

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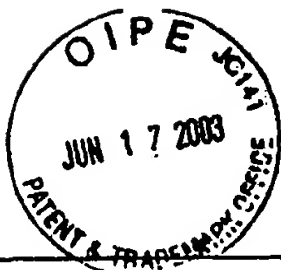
	AR	<u>101</u>	Skrally, F.A., et al., "Construction and Characterization of a 1,3-Propanediol Operon," Appl. Environ. Microbiol. 64:98-105, American Society for Microbiology (January 1998).
	AS	<u>101</u>	Spinella, D.G., et al., "Tandem arrayed ligation of expressed sequence tags (TALEST): a new method for generating global gene expression profiles," Nucl. Acids Res. 27(e22):i-viii, Oxford University Press (September 1999).
	AT	<u>101</u>	Stark, W.M., et al., "Site-Specific Recombination by Tn3 Resolvase: Topological Changes in the Forward and Reverse Reactions," Cell 58:779-790, Cell Press (1989).

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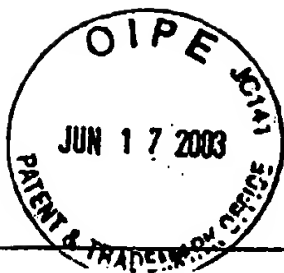
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	AR	102	Stassi, D.L., et al., "Ethyl-substituted erythromycin derivatives produced by directed metabolic engineering," <i>Proc. Natl. Acad. Sci. USA</i> 95:7305-7309, National Academy of Sciences (June 1998).
	AS	102	Stellwagen, A.E., and Craig, N.L., "Mobile DNA elements: controlling transposition with ATP-dependent molecular switches," <i>Trends Biochem. Sci.</i> 23:486-490, Elsevier Science Publishers (December 1998).
	AT	102	Stenzel, T.T., et al., "The Integration Host Factor of Escherichia coli Binds to Bent DNA at the Origin of Replication of the Plasmid pSC101," <i>Cell</i> 49:709-717, Cell Press (1987).

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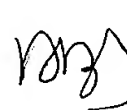
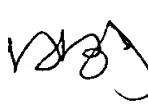
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	AR	103	Sugiura, S., et al., "Minimal Essential Origin of Plasmid pSC101 Replication: Requirement of a Region Downstream of Iterons," J. Bacteriol. 175:5993-6001, American Society for Microbiology (1993).
	AS	103	Uetsuki, T., et al., "Isolation and Characterization of the Human Chromosomal Gene for Polypeptide Chain Elongation Factor-1 $\alpha$ ," J. Biol. Chem. 264:5791-5798, The American Society for Biochemistry and Molecular Biology, Inc. (1989).
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	AR	<u>104</u>	Voss, S.D., et al., "The role of enhancers in the regulation of cell-type-specific transcriptional control," <i>Trends Biochem. Sci.</i> 11:287-289, Elsevier Science (1986).
	AS	<u>104</u>	Voznyanov, Y., et al., "A general model for site-specific recombination by the integrase family recombinases," <i>Nucl. Acids Res.</i> 27:930-941, Oxford University Press (February 1999).
	AT	<u>104</u>	Yoon, H., et al., "SSL1, a suppressor of a HIS4 5'-UTR stem-loop mutation, is essential for translation initiation and affects UV resistance in yeast," <i>Genes Dev.</i> 6:2463-2477, Cold Spring Harbor Laboratory Press (1992).

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# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

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Title of Invention	Compositions and Methods for Use In Recombinational Cloning of Nucleic Acids																																																																																																																
<p>Application Number: 09/517466</p> <p>Confirmation Number: 4289</p> <p>First Named Applicant: James Hartley</p> <p>Attorney Docket Number: 0942.4680003</p> <p>Search string: ( 4683195 or 4683202 or 4965188 or 5093257 or 5102797 or 5159062 or 5286632 or 5334375 or 5334575 or 5378618 or 5527695 or 5605793 or 5650308 or 5650557 or 5728551 or 5801030 or 5814300 or 5837458 or 5929307 or 5962255 or 5981177 or 6080576 or 6143557 or 6225121 or 6262341 or 6270969 or 6271436 or 6277608 or 6361972 or 6365377 or 6410266 or 6410317 or 6436707 or 20020007051 or 20030027337 ).pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>111</td><td>1</td><td>4683195</td><td>1987-07-28</td><td>Mullis et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>4683202</td><td>1987-07-28</td><td>Mullis</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>4965188</td><td>1990-10-23</td><td>Mullis et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>5093257</td><td>1992-03-03</td><td>Gray, G.L.</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>5102797</td><td>1992-04-07</td><td>Tucker et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>5159062</td><td>1992-10-27</td><td>Knapp et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>5286632</td><td>1994-02-15</td><td>Jones, D.H.</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>5334375</td><td>1994-08-02</td><td>Nabi et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>5334575</td><td>1994-08-02</td><td>Noonan et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td>5378618</td><td>1995-01-03</td><td>Sternberg et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>11</td><td>5527695</td><td>1996-06-18</td><td>Hodges et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>12</td><td>5605793</td><td>1997-02-25</td><td>Stemmer, W.P.C.</td><td></td><td></td><td></td></tr><tr><td>111</td><td>13</td><td>5650308</td><td>1997-07-22</td><td>Baum, J.A.</td><td></td><td></td><td></td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	111	1	4683195	1987-07-28	Mullis et al.					2	4683202	1987-07-28	Mullis					3	4965188	1990-10-23	Mullis et al.					4	5093257	1992-03-03	Gray, G.L.					5	5102797	1992-04-07	Tucker et al.					6	5159062	1992-10-27	Knapp et al.					7	5286632	1994-02-15	Jones, D.H.					8	5334375	1994-08-02	Nabi et al.					9	5334575	1994-08-02	Noonan et al.					10	5378618	1995-01-03	Sternberg et al.					11	5527695	1996-06-18	Hodges et al.					12	5605793	1997-02-25	Stemmer, W.P.C.				111	13	5650308	1997-07-22	Baum, J.A.			
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nm	14	5650557	1997-07-22	Hannah et al.	
	15	5728551	1998-03-17	Devine et al.	
	16	5801030	1998-09-01	McVey et al.	
	17	5814300	1998-09-29	Scott et al.	
	18	5837458	1998-11-17	Minshull et al.	
	19	5929307	1999-07-27	Hodges et al.	
	20	5962255	1999-10-05	Griffiths et al.	
	21	5981177	1999-11-09	Demirjian et al.	
	22	6080576	2000-06-27	Zambrowicz et al.	
	23	6143557	2000-11-07	Hartley, J.L. et al.	
	24	6225121	2001-05-01	Savakis, C. et al.	
	25	6262341	2001-07-17	Baszcynski et al.	B1
	26	6270969	2001-08-07	Hartley et al.	B1
	27	6271436	2001-08-07	Piedrahita et al.	B1
	28	6277608	2001-08-21	Hartley et al.	B1
	29	6361972	2002-03-26	Harrington et al.	
	30	6365377	2002-04-02	Patten et al.	B1
	31	6410266	2002-06-25	Harrington et al.	
	32	6410317	2002-06-25	Farmer, A.F.	B1
nm	33	6436707	2002-08-20	Zambrowicz et al.	

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Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
nm	1	20020007051	2002-01-17	Cheo et al.			
nm	2	20030027337	2003-02-06	Droge et al.			

## Signature

Examiner Name	Date
<i>Diana B.</i>	1/23/04

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<i>DM</i>	AA1	4,673,640	06/16/1987	Backman, K.C.	435	68	04/30/1984
	AB1	4,743,546	05/10/1998	Backman et al.	435	108	02/13/1985
	AC1	4,959,317	09/25/1990	Sauer B.L.	435	172.3	04/29/1987
	AD1	5,227,288	07/13/1993	Blattner, F.R.	435	6	10/01/1990
	AE1	5,354,668	10/11/1994	Auerbach, J.I.	435	91.1	10/15/1993
	AF1	5,434,066	07/18/1995	Bebee, R.L., et al.	435	172.3	03/15/1994
	AG1	5,470,727	11/28/1995	Mascarenhas et al.	435	172.3	12/21/1993
	AH1	5,591,609	01/07/1997	Auerbach, J.I.	435	91.2	02/03/1995
	AI1	5,614,389	03/25/1997	Auerbach, J.I.	435	91.2	09/26/1995
	AJ1	5,635,381	06/03/1997	Hooykaas et al.	435	172.3	01/20/1995
<i>DM</i>	AK1	5,658,772	08/19/1997	Odell et al.	435	172.3	07/27/1994

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
<i>DM</i>	AL1	EP 0 160 571 A2	11/06/1985	Europe			Yes <del>No</del>
	AM1	EP 0 300 422	01/25/1989	Europe			Yes <del>No</del>
	AN1	WO 91/02801	03/07/1991	WIPO			Yes <del>No</del>
	AO1	WO 91/16427	10/31/1991	WIPO			Yes <del>No</del>
<i>DM</i>	AP1	WO 92/20791	11/26/1992	WIPO			Yes <del>No</del>

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DM</i>	AR	1	Abremski, K., and Gottesman, S., "Purification of the Bacteriophage $\lambda$ xis Gene Product Required for $\lambda$ Excisive Recombination," J. Biol. Chem. 257(16):9658-9662, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1982).
<i>DM</i>	AS	1	Abremski, K., and Hoess, R., "Bacteriophage P1 Site-specific Recombination - Purification and Properties of the Cre Recombinase Protein," J. Biol. Chem. 259:1509-1514, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1984).
<i>DM</i>	AT	1	Abremski, K., et al., "Bacteriophage P1 Cre-loxP Site-specific Recombination: Site-specific DNA Topoisomerase Activity of the Cre Recombination Protein," J. Biol. Chem. 261(1):391-396, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1986).

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DJP	AA2	5,677,170	10/14/1997	Devine et al.	435	20.1	03/02/1994
	AB2	5,677,177	10/14/1997	Wahl et al.	435	325	06/07/1995
	AC2	5,710,248	01/20/1998	Grose, C.F.	530	327	07/29/1996
	AD2	5,723,765	03/03/1998	Oliver et al.	800	208	06/07/1995
	AE2	5,733,733	03/31/1998	Auerbach, J.I.	435	6	02/01/1996
	AF2	5,733,743	03/31/1998	Johnson et al.	435	320.1	06/10/1996
	AG2	5,744,336	04/28/1998	Hodges et al.	435	172.3	03/08/1996
	AH2	5,766,891	06/16/1998	Shuman, S.	435	91.41	12/19/1994
	AI2	5,776,449	07/07/1998	Baum et al.	424	93.2	09/20/1996
	AJ2	5,830,707	11/03/1998	Bushman, F.D.	435	69.7	06/05/1995
	AK2	5,837,242	11/17/1998	Holliger et al.	424	136.1	05/14/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
DJP	AL2	WO 93/15191	08/05/1993	WIPO			Yes No
	AM2	WO 93/19172	09/30/1993	WIPO			Yes No
	AN2	CA 2,141,412	02/17/1994	Canada			Yes No
	AO2	WO 94/17176	08/04/1994	WIPO			Yes No
DJP	AP2	WO 95/00555	01/05/1995	WIPO			Yes No

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DJP	AR	2	Abremski, K., et al., "Studies on the Properties of P1 Site-Specific Recombination: Evidence for Topologically Unlinked Products Following Recombination," Cell 32:1301-1311, Cell Press, Cambridge, MA (1993).
DJP	AS	2	Adams, D.E., et al., "Cre-lox Recombination in Escherichia coli Cells: Mechanistic Differences from the in Vitro Reaction," J. Mol. Biol. 226:661-673, Academic Press, Inc., New York, NY (1992).
DJP	AT	2	Andrews, B.J., et al., "The FLP Recombinase of the 2μ Circle DNA of Yeast: Interaction with Its Target Sequences," Cell 40:795-803, Cell Press, Cambridge, MA (1985).

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	AA3	5,843,772	12/01/1998	Devine, S.E., et al.	435	69.1	11/18/1994
	AB3	5,851,808	12/22/1998	Elledge et al.	435	172.3	02/28/1997
	AC3	5,858,657	01/12/1999	Winter et al.	435	6	06/07/1995
	AD3	5,871,907	02/16/1999	Winter et al.	435	6	03/31/1994
	AE3	5,874,259	02/23/1999	Szybalski, W.	435	91.1	11/21/1997
	AF3	5,888,732	03/30/1999	Hartley et al.	435	6	06/07/1996
	AG3	5,916,804	06/29/1999	Bushman, F.D.	435	325	04/17/1998
	AH3	5,919,676	07/06/1999	Graham et al.	435	172.3	06/07/1995
	AI3	5,928,914	07/27/1999	Leboulch et al.	435	172.3	11/05/1996
	AJ3	5,989,872	11/22/1999	Luo et al.	435	91.2	08/12/1997
	AK3	6,010,884	01/04/2000	Griffiths et al.	435	69.7	05/29/1996

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	AL3	WO 97/06265	02/20/1997	WIPO			Yes <del>No</del>
	AM3	WO 97/09436	03/13/1997	WIPO			Yes <del>No</del>
	AN3	WO 97/25446	07/17/1997	WIPO			Yes <del>No</del>
	AO3	WO 97/32481	09/12/1997	WIPO			Yes <del>No</del>
	AP3	WO 98/10086	03/12/1998	WIPO			Yes <del>No</del>

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	3	Andrews, B.J., et al., "Interaction of the FLP Recombinase of the <i>Saccharomyces cerevisiae</i> 2µm Plasmid with Mutated Target Sequences," <i>Mol. Cell. Biol.</i> 6:2482-2489, American Society for Microbiology, Washington, D.C. (1986).
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	AT	3	Araki, H., et al., "Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1," <i>J. Mol. Biol.</i> 225:25-37, Academic Press, Inc., New York, NY (1992).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DMJ	AA4	6,040,430	03/21/2000	Stewart	530	358	12/26/1995
	AB4	6,063,627	06/16/2000	McVey et al.	435	440	02/25/1998
	AC4	5,348,886	09/20/1994	Lee et al.	435	320.1	09/04/1992
DMJ	AD4	6,171,861	01/09/2001	Hartley et al.	435	455	01/12/1998
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DMJ	AM4	WO 00/12687	03/09/2000	WIPO			Yes No
DMJ	AN4	EP 1 035 208	09/13/2000	Europe			Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
DMJ	AR	4	Argos, P., et al., "The integrase family of site-specific recombinases: regional similarities and global diversity," <i>EMBO J.</i> 5(2):433-440, IRL Press Limited, Oxford, England (1986).
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DMJ	AT	4	Atlung, T., et al., "A versatile method for integration of genes and gene fusions into the $\lambda$ attachment site of <i>Escherichia coli</i> ," <i>Gene</i> 107:11-17, Elsevier/North-Holland, Netherlands (1991).

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<i>DM</i>	AR	<u>5</u>	Ausubel, F.M., et al., "Maps of Plasmids pBR322 and pUC19," in Current Protocols in Molecular Biology, John Wiley & Sons, Inc., Boston, MA, (1995), pages 1.5.3 and 1.5.4 <i>nm</i>
<i>nm</i>	AS	<u>5</u>	Ausubel, F.M., et al., "Mutagenesis by the Polymerase Chain reaction," in: Current Protocols in Molecular Biology, John Wiley & Sons, Inc., Boston, MA, pp. 8.5.1-8.5.9 (1995).
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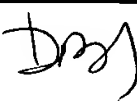
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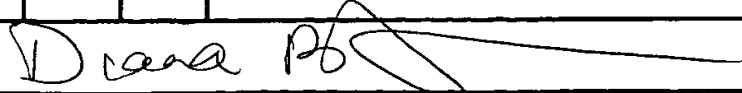
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	AO						Yes No
	AP						Yes No

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	AR	<u>6</u>	Balakrishnan, R., et al., "A gene cassette for adapting <i>Escherichia coli</i> strains as hosts for att-Int-mediated rearrangement and p <sub>L</sub> expression vectors," Gene 138:101-104, Elsevier/North-Holland, Netherlands (January 1994).
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	AT	<u>6</u>	Bethke, B., and Sauer, B., "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants," Nucl. Acids Res. 25:2828-2834, Oxford University Press, Oxford, England (1997).

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DM	AR	2	Bernard, P., and Couturier, M., "Cell Killing by the F plasmid Ccdb Protein Involves Poisoning of DNA-topoisomerase II Complexes," J. Mol. Biol. 226:735-745, Academic Press, Inc., New York, NY (1992).
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DM	AT	2	Betz, U.A.K., et al., "Bypass of lethality with mosaic mice generated by Cre-loxP-mediated recombination," Curr. Biol. 6:1307-1316, Current Biology Ltd., London, England (October 1996).

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	APPLICANT Hartley et al.	
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## U.S. PATENT DOCUMENTS

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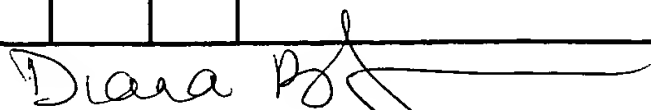
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Bhandari, P. and Gowrishankar, J., "An <i>Escherichia coli</i> host strain useful for efficient overproduction of cloned gene products with NaCl as the inducer," <i>J. Bacteriol.</i> 179:4403-4406, American Society for Microbiology, Washington, D.C. (July 1997).
	AS	8	Black, L.W., "In vitro packaging into phage T4 particles and specific recircularization of phage lambda DNAs," <i>Gene</i> 46:97-101, Elsevier/North-Holland, Netherlands (1986).
	AT	8	Bloch, C.A., et al., "Purification of <i>Escherichia coli</i> Chromosomal Segments without Cloning," <i>Biochem. Biophys. Res. Comm.</i> 223:104-111, Academic Press, Inc., New York, NY (1996).

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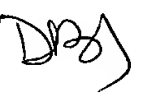
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	2	Bochner, B. R., et al., "Positive Selection for Loss of Tetracycline Resistance," J. Bacteriol. 143:926-933, American Society for Microbiology, Washington, D.C. (1980).
	AS	2	Boyd, A. C., "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids," Nucl. Acids Res. 21(4):817-821, Oxford University Press, Oxford, England (1993).
	AT	2	Broach, J. R., et al., "Recombination within the Yeast Plasmid 2μ Circle is Site-Specific," Cell 29:227-234, Cell Press, Cambridge, MA (1982).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	10	Brunelli, J. P. and Pall, M. L., "A Series of Yeast/ <i>Escherichia coli</i> $\lambda$ Expression Vectors Designed for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision," <i>Yeast</i> 9:1309-1318, John Wiley, Chichester, NY (1993).	
AS	10	Brunelli, J.P., and Pall, M.L., "Lambda/Plasmid Vector Construction by In Vivo cre/lox-Mediated Recombination," <i>BioTechniques</i> 16(6):1061-1064, Eaton Publishing Company, Natick, MA (June 1994).	
AT	10	Bubeck, P., et al., "Rapid cloning by homologous recombination in vivo," <i>Nucl. Acids Res.</i> 21:3601-3602, Oxford University Press, Oxford, England (1993).	
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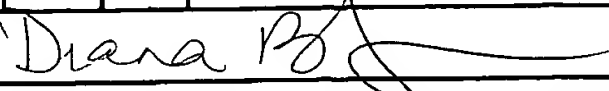
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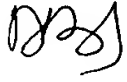
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>11</u>	Buchholz, F., et al., "A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs," Nucl. Acids Res. 24(15):3118-3119, Oxford University Press, Oxford, England (1996).
	AS	<u>11</u>	Buchholz, F., et al., "Different thermostabilities of FLP and Cre recombinases: implications for applied site-specific recombination," Nucl. Acids Res. 24(21):4256-4262, Oxford University Press, Oxford, England (1996).
	AT	<u>11</u>	Bushman, W., et al., "Control of Directionality in Lambda Site Specific Recombination," Science 230:906-911, Association for the Advancement of Science, Washington D.C. (1985).

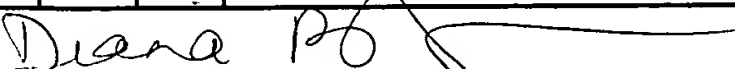
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>12</u>	Campbell, A. M., "Chromosomal Insertion Sites for Phages and Plasmids," J. Bacteriol. 174(23):7495-7499, American Society for Microbiology, Washington, D.C. (1992).
	AS	<u>12</u>	Chapin, S.J., et al., "Differential expression of alternatively spliced forms of MAP4: a repertoire of structurally different microtubule-binding domains," Biochem. 34:2289-2301, American Chemical Society, Washington D.C. (1995).
	AT	<u>12</u>	Chatterjee, P.K., and Coren, J.S., "Isolating large nested deletions in bacterial and P1 artificial chromosomes by in vivo P1 packaging of products of Cre-catalyzed recombination between the endogenous and a transposed loxP site," Nucl. Acids Res. 25:2205-2212, Oxford University Press, Oxford, England (1997).

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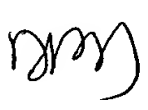


  

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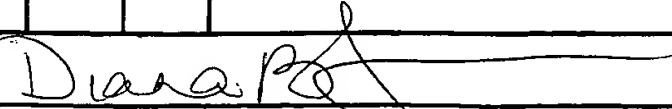
  

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	13	Cox, M.M., "The FLP protein of the yeast 2- $\mu$ m plasmid: Expression of a eukaryotic genetic recombination system in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 80:4223-4227, National Academy of Sciences of the USA, Washington, D.C. (1983).
	AS	13	Craig, N.L. and Nash, H.A., "The Mechanism of Phage $\lambda$ Site-Specific Recombination: Site-Specific Breakage of DNA by Int Topoisomerase," <i>Cell</i> 35:795-803, Cell Press, Cambridge, MA (1983).
	AT	13	Dale, E.C. and Ow, D.W., "Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase," <i>Gene</i> 91:79-85, Elsevier/North-Holland, Netherlands (1990).

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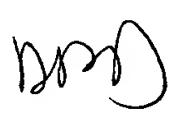


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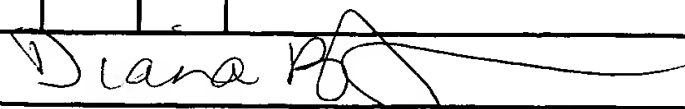
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>14</u>	Dale, E.C. and Ow, D.W., "Gene transfer with subsequent removal of the selection gene from the host genome," <i>Proc. Natl. Acad. Sci. USA</i> 88:10558-10562, National Academy of Sciences of the USA, Washington, D.C. (1991).
	AS	<u>14</u>	Dang, D.T. and Perrimon, N., "Use of a Yeast Site-Specific Recombinase to Generate Embryonic Mosaics in <i>Drosophila</i> ," <i>Develop. Genetics</i> 13:367-375, Wiley-Liss, Inc., New York, NY (1992).
	AT	<u>14</u>	Degryse, E., "In vivo intermolecular recombination in <i>Escherichia coli</i> : application to plasmid constructions," <i>Gene</i> 170:45-50, Elsevier/North-Holland, Netherlands (1996).

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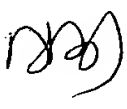
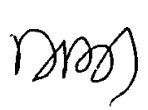
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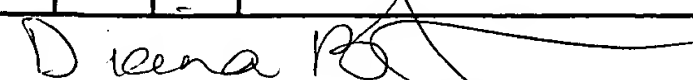
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>15</u>	Devine, S. E., and Boeke, J.D., "Efficient integration of artificial transposons into plasmid targets in vitro: a useful tool for DNA mapping, sequencing and genetic analysis," Nucl. Acids Res. 22(18):3765-3772, Oxford University Press, Oxford, England (September 1994).
	AS	<u>15</u>	Diederich, L., et al., "New Cloning Vectors for Integration into the $\lambda$ Attachment Site attB of the Escherichia coli Chromosome," Plasmid 28:14-24, Academic Press, New York, NY (1992)
	AT	<u>15</u>	Dymecki, S. M., "A modular set of F <sub>1</sub> p, FRT and lacZ fusion vectors for manipulating genes by site-specific recombination," Gene 171:197-201, Elsevier/North-Holland, Netherlands (June 1996).

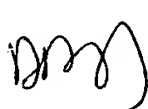
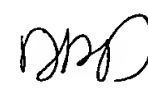

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	AR	16	Elledge, S. J., et al., "λYES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and <i>Escherichia coli</i> mutations," <i>Proc. Natl. Acad. Sci. USA</i> 88:1731-1735, National Academy of Sciences of the USA, Washington, D.C. (1991).
	AS	16	Feil, R., et al., "Regulation of Cre Recombinase Activity by Mutated Estrogen Receptor Ligand-Binding Domains," <i>Biochem. Biophys. Res. Comm.</i> 237:752-757, Academic Press, Inc., New York, NY (1997).
	AT	16	Ferguson, J., et al., "Construction and characterization of three yeast- <i>Escherichia coli</i> shuttle vectors designed for rapid subcloning of yeast genes on small DNA fragments," <i>Gene</i> 16:191-197, Elsevier/North-Holland, Netherlands (1981).

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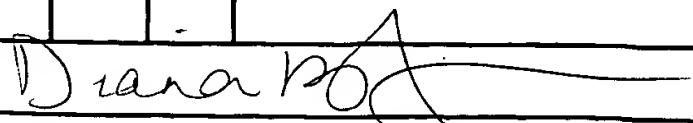
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	AR	17	Fiering, S., et al., "An "in-out" strategy using gene targeting and FLP recombinase for the functional dissection of complex DNA regulatory elements: Analysis of the $\beta$ -globin locus control region," <i>Proc. Natl. Acad. Sci. USA</i> 90:8469-8473, National Academy of Sciences of the USA, Washington, D.C. (1993).
	AS	17	Filutowicz, M., et al., "Purification of the <i>Escherichia coli</i> integration host factor (IHF) in one chromatographic step," <i>Gene</i> 147:149-150, Elsevier/North-Holland, Netherlands (September 1994).
	AT	17	Francia, M.V., and Lobo, J.M.G., "Gene Integration in the <i>Escherichia coli</i> Chromosome Mediated by Tn21 Integrase (Int21)," <i>J. Bacteriol.</i> 178:894-898, American Society for Microbiology, Washington, D.C. (February 1996).

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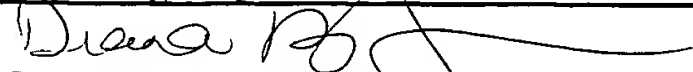
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	AR	18	Fukushige, S. and Sauer, B., "Genomic targeting with a positive-selection lox integration vector allows highly reproducible gene expression in mammalian cells," Proc. Natl. Acad. Sci. USA 89:7905-7909, National Academy of Sciences of the USA, Washington, D.C. (1992).
	AS	18	Geoffroy, F., et al., "A new phage display system to construct multicombinatorial libraries of very large antibody repertoires," Gene 151:109-113, Elsevier/North-Holland, Netherlands (December 1994).
	AT	18	Glasgow, A.C., et al., "DNA-binding Properties of the Hin Recombinase," J. Biol. Chem. 264:10072-10082, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1989).

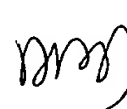


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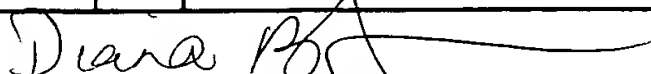
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	19	Golic, K. G. and Lindquist, S., "The FLP Recombinase of Yeast Catalyzes Site-Specific Recombination in the Drosophila Genome," Cell 59:499-509, Cell Press, Cambridge, MA (1989).
	AS	19	Gu, H., et al., "Deletion of a DNA Polymerase $\beta$ Gene Segment in T Cells Using Cell Type-Specific Gene Targeting," Science 265:103-106, Association for the Advancement of Science, Washington D.C. (1994).
	AT	19	Guo, F., et al., "Asymmetric DNA bending in the Cre-loxP site-specific recombination synapse," Proc. Natl. Acad. Sci. USA 96:7143-7148, National Academy of Sciences of the USA, Washington, D.C. (1999).

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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>20</u>	Hardy, S., et al., "Construction of Adenovirus Vectors through Cre-lox Recombination," J. Virol. 71(3):1842-1849, American Society for Microbiology, Washington, D.C. (1997).
	AS	<u>20</u>	Hasan, N., and Szybalski, W., "Control of cloned gene expression by promoter inversion in vivo: construction of improved vectors with a multiple cloning site and the p <sub>tac</sub> promoter," Gene 56:145-151, Elsevier/North-Holland, Netherlands (1987).
	AT	<u>20</u>	Hasan, N., et al., "Escherichia coli genome targeting, I. Cre-lox-mediated in vitro generation of ori <sup>+</sup> plasmids and their in vivo chromosomal integration and retrieval," Gene 150:51-56, Elsevier/North-Holland, Netherlands (December 1994).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>21</u>	Hashimoto-Gotoh, T., et al., "Improved vector, pHSG664, for direct streptomycin-resistance selection: cDNA cloning with G:C-tailing procedure and subcloning of double-digested DNA fragments," Gene 41:125-128, Elsevier/North-Holland, Netherlands (1986).
	AS	<u>21</u>	Hoekstra, M. F., et al., "Shuttle Mutagenesis: Bacterial Transposons for Genetic Manipulations in Yeast," Meth. Enzymol. 194:329-342, Academic Press Inc., New York, NY (1991).
	AT	<u>21</u>	Hoess, R.H., et al., "P1 site-specific recombination: Nucleotide sequence of the recombining sites," Proc. Natl. Acad. Sci. USA 79:3398-3402, National Academy of Sciences of the USA, Washington, D.C. (1982).

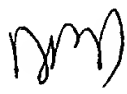

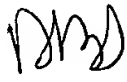
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>22</u>	Hoess, R.H., et al., "Mechanism of Strand Cleavage and Exchange in the Cre-lox Site-specific Recombination System," J. Mol. Biol. 181:351-362, Academic Press, Inc., New York, NY (1985).
	AS	<u>22</u>	Hoess, R., et al., "Formation of small circular DNA molecules via an in vitro site-specific recombination system," Gene 40:325-329, Elsevier/North-Holland, Netherlands (1985).
	AT	<u>22</u>	Hoess, R. H., et al., "The role of the loxP spacer region in P1 site-specific recombination," Nucl. Acids Res. 14(5):2287-2300, Oxford University Press, Oxford, England (1986).


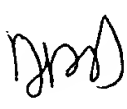

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>23</u>	Hoess, R. H., and Abremski, K., "The Cre-lox Recombination System," in: Nucleic Acids and Molecular Biology, Vol. 4, ed. by Eckstein, F. and D. M. J. Lilley, Springer-Verlag, Berlin, pp 99-109 (1990).
	AS	<u>23</u>	Hoogenboom, H.R., et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," Nucl. Acids Res. 19:4133-4137, Oxford University Press, Oxford, England (1991).
	AT	<u>23</u>	Holt, C.L., and May, G.S., "A novel phage λ replacement Cre-lox vector that has automatic subcloning capabilities," Gene 133:95-97, Elsevier/North-Holland, Netherlands (1993).




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	AR	24	Jaffé, A., et al., "Effects of the ccd Function of the F Plasmid on Bacterial Growth," J. Bacteriol. 163:841-849, American Society for Microbiology, Washington, D.C. (1985).
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	AT	24	Katz, L., et al., "Site-specific Recombination in Escherichia coli between the att sites of plasmid pSE211 from Saccharopolyspora erythraea," Mol. Gen. Genet. 227:155-159, Springer-Verlag, New York, NY (1991).


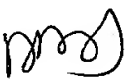

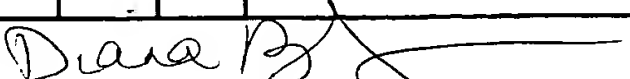
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	25	Kilby, N.J., et al., "Site-specific recombinases: tools for genome engineering," Trends Genet. 9:413-421, Elsevier Science Publishers Ltd., Cambridge, England (1993).
	AS	25	Kim, S., et al., "Lambda Int Protein Bridges Between Higher Complexes at Two Distant Chromosomal Loci attL and attR," Science 256:198-263, Association for the Advancement of Science, Washington D.C. (1992).
	AT	25	Kozak, M., "Comparison of Initiation of Protein Synthesis in Prokaryotes, Eucaryotes, and Organelles," Microbiol. Rev. 47:1-45, American Society For Microbiology, Washington, D.C. (1983).
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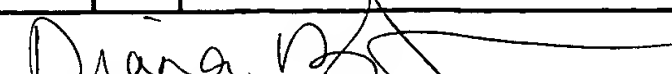
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>26</u>	Kozak, M., "An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs," Nucl. Acids res. 15:8125-8132, Oxford University Press, Oxford, England (1987).
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	AT	<u>26</u>	Kühn, R., et al., "Inducible Gene Targeting in Mice," Science 269:1427-1429, Association for the Advancement of Science, Washington D.C. (September 1995).

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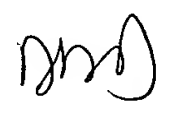
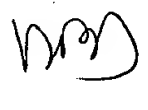

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	27	Lafontaine, D., and Tollervey, D., "One-step PCR mediated strategy for the construction of conditionally expressed and epitope tagged yeast proteins," Nucl. Acids Res. 24:2469-2472, Oxford University Press, Oxford, England (1996).
	AS	27	Lakso, M., et al., "Targeted oncogene activation by site-specific recombination in transgenic mice," Proc. Natl. Acad. Sci. USA 89:6232-6236, National Academy of Sciences of the USA, Washington, D.C. (1992).
	AT	27	Lander, E.S., "The New Genomics: Global Views of Biology," Science 274:536-539, Association for the Advancement of Science, Washington D.C. (October 1996).

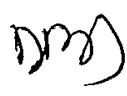


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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>28</u>	Landy, A., "Dynamic, Structural, and Regulatory Aspects of $\lambda$ Site-Specific Recombination," Annu. Rev. Biochem. 58:913-949, American Chemical Society, Washington D.C. (1989).
	AS	<u>28</u>	Landy, A., "Mechanistic and structural complexity in the site-specific recombination pathways of Int and FLP," Curr. Op. Genet. Develop. 3:699-707, Current Biology Ltd., London, England (1993).
	AT	<u>28</u>	Lebreton, B., et al., "Mutations That Improve the Binding of Yeast FLP Recombinase to Its Substrate," Genetics 118:393-400, Genetics Society of America, Baltimore, MD (1988).

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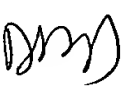
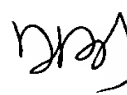
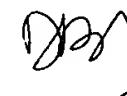
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	AR	29	Lee, E.C., et al., "Genetic Analysis of Escherichia coli Integration Host Factor Interactions with Its Bacteriophage $\lambda$ H' Recognition Site," J. Bacteriol. 173:609-617, American Society for Microbiology, Washington, D.C. (1991).
	AS	29	Leong, J.M., et al., "Generation of single base-pair deletions, insertions, and substitutions by a site-specific recombination system," Proc. Natl. Acad. Sci. USA 82:6990-6994, National Academy of Sciences of the USA, Washington, D.C. (1985).
	AT	29	Liu, Q., et al., "The univector plasmid-fusion system, a method for rapid construction o recombinant DNA without restriction enzymes," Curr. Biol. 8:1300-1309, Current Biology Ltd., London, England (1998).


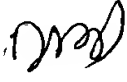

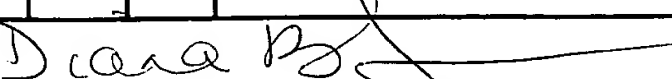
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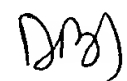
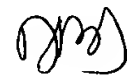
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	AR	30	Lorbach, E. et al., "Site-specific Recombination in Human Cells Catalyzed by Phage $\lambda$ Integrase Mutants," <i>J. Mol. Biol.</i> 296:1175-1181, Academic Press, Inc., New York, NY (March 2000).
	AS	30	Luckow, V. A., et al., "Efficient Generation of Infectious Recombinant Baculoviruses by Site-Specific Transposon-Mediated Insertion of Foreign Genes into a Baculovirus Genome Propagated in <i>Escherichia coli</i> ," <i>J. Virol.</i> 67(8):4566-4579, American Society for Microbiology, Washington, D.C. (1993).
	AT	30	Maeser, S., and Kahmann, R., "The Gin recombinase of phage Mu can catalyze site-specific recombination in plant protoplasts," <i>Mol. Gen. Genet.</i> 230:170-176, Springer-Verlag, New York, NY (1991).
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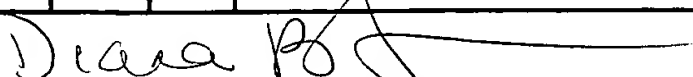
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>31</u>	Matsuzaki, H., et al., "Chromosome Engineering in <i>Saccharomyces cerevisiae</i> by Using a Site-Specific Recombination System of a Yeast Plasmid," <i>J. Bacteriol.</i> 172:610-618, American Society for Microbiology, Washington, D.C. (1990).
	AS	<u>31</u>	Mahillon, J., et al., "IS231 and other <i>Bacillus thuringiensis</i> transposable elements: a review," <i>Genetica</i> 93:13-26, Dordrecht Kluwer Academic Publishers (November 1994).
	AT	<u>31</u>	McCarthy, J.E. and Brimacombe, R., "Prokaryotic translation: the interactive pathway leading to initiation," <i>Trends Genet.</i> 10:402-407, Elsevier Science Publishers Ltd., Cambridge, England (November 1994).

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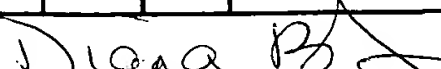
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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
	APPLICANT Hartley et al.	
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U.S. PATENT DOCUMENTS							
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	AM						Yes No
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)




	AR	<u>32</u>	Medberry, S.L., et al., "Intra-chromosomal rearrangements generated by Cre-lox site-specific recombination," Nucl. Acids Res. 23:485-490, Oxford University Press, Oxford, England (1995).
	AS	<u>32</u>	Miki, T. et al., "Control of Segregation of Chromosomal DNA by Sex Factor F in Escherichia coli. Mutants of DNA Gyrase Subunit A Suppress letD (ccdB) Product Growth Inhibition," J. Mol. Biol. 225:39-52, Academic Press, Inc., New York, NY (1992).
	AT	<u>32</u>	Mizuuchi, K., and Mizuuchi, K., "Integrative Recombination of Bacteriophage λ: In Vitro Study of the Intermolecular Reaction," Cold Spring Harb. Symp. Quant. Biol. 43:1111-1114, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1979).
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	33	Mizuuchi, M. and Mizuuchi, K., "The extent of DNA sequence required for a functional bacterial attachment site of phage lambda," Nucl. Acids Res. 13:1193-1208, Oxford University Press, Oxford, England (1985).
	AS	33	Mozo, T. and Hooykaas, P. J. J., "Design of a novel system for the construction of vectors for Agrobacterium-mediated plant transformation," Mol. Gen. Genet 236:1-7, Springer-Verlag, New York, NY (1992).
	AT	33	Mullins, L.J., et al., "Efficient Cre-lox linearisation of BACs: applications to physical mapping and generation of transgenic animals," Nucl. Acids Res. 25(12):2539-2540, Oxford University Press, Oxford, England (1997).

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1655**U.S. PATENT DOCUMENTS**

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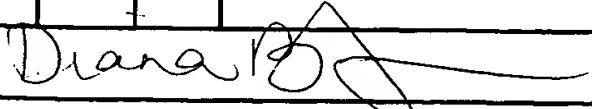
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	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	34	Nagaraja, R. and Weisberg, R. A., "Specificity Determinants in the Attachment Sites of Bacteriophages HK022 and λ," J. Bacteriol. 172:6540-6550, American Society for Microbiology, Washington, D.C. (1990).
	AS	34	Nash, H.A., "Integrative Recombination of Bacteriophage Lambda DNA In Vitro," Proc. Natl. Acad. Sci. USA 72:1072-1076, National Academy of Sciences of the USA, Washington, D.C. (1975).
	AT	34	Nash, H.A., and Robertson, C.A., "Purification and properties of the Escherichia coli protein factor required for lambda integrative recombination," J. Biol. Chem. 256:9246-9253, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1981).

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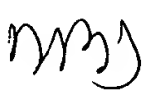

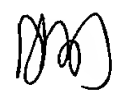
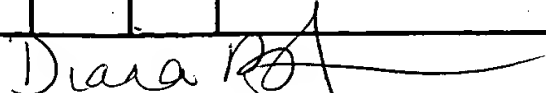
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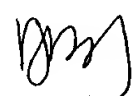
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	35	Nash, H. A., "Purification and Properties of the Bacteriophage Lambda Int Protein," Meth. Enzymol. 100:210-216, Academic Press Inc., New York, NY (1983).
	AS	35	Nash, H. A., et al., "Role of homology in site-specific recombination of bacteriophage λ: Evidence against joining of cohesive ends," Proc. Natl. Acad. Sci. USA 84:4049-4053, National Academy of Sciences of the USA, Washington, D.C. (1987).
	AT	35	Nash, H. and C.A. Robertson, "Heteroduplex substrates for bacteriophage lambda site-specific recombination: cleavage and strand transfer products," EMBO J. 8:3523-3533, IRL Press Limited, Oxford, England (1989).
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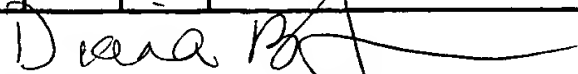
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	36	Nash, H.A., "Bending and supercoiling of DNA at the attachment site of bacteriophage $\lambda$ ," Trends Biochem. Sci 15:222-227, International Union of Biochemistry and Elsevier Trends Journal, Cambridge, England (1990).
	AS	36	Numrych, T. E., et al., "A comparison of the effects of single-base and triple-base changes in the integrase arm-type binding sites on the site-specific recombination of bacteriophage lambda," Nucl. Acids Res. 18:3953-3959, Oxford University Press, Oxford, England (1990).
	AT	36	Numrych, T.E., et al., "Characterization of the bacteriophage lambda excisionase (Xis) protein: the C-terminus is required for Xis-integrase cooperativity but not for DNA binding," EMBO J. 11(10):3797-3806, IRL Press Limited, Oxford, England (1992).

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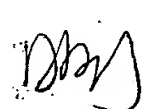


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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	37	Nunes-Duby, S.E., et al., "Half-att Site Substrates Reveal the Homology Independence and Minimal Protein Requirements for Productive Synapsis in $\lambda$ Excisive Recombination," Cell 59:197-206, Cell Press, Cambridge, MA (1989).
	AS	37	Nunes-Duby, et al., "Similarities and differences among 105 members of the Int family of site-specific recombinases," Nucl. Acids Res. 26:391-406, Oxford University Press, Oxford, England (1998).
	AT	37	Oberto, J., et al., "A segment of the phage HK022 chromosome is a mosaic of other lambdoid chromosomes," Nucl. Acids Res. 22(3):354-356, Oxford University Press, Oxford, England (February 1994).

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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>mm</i>	AR	38	Oliner, J.D., et al., "In vivo cloning of PCR products in <i>E. coli</i> ," Nucl. Acids Res. 21:5192-5197, Oxford University Press, Oxford, England (1993).
<i>mm</i>	AS	38	Orban, P. C., et al., "Tissue- and site-specific DNA recombination in transgenic mice," Proc. Natl. Acad. Sci. USA 89:6861-6865, National Academy of Sciences of the USA, Washington, D.C. (1992).
<i>mm</i>	AT	38	Osborne, B.I., et al., "A system for insertional mutagenesis and chromosomal rearrangement using the Ds transposon and Cre-lox," Plant J. 7:687-701, Oxford Bios Scientific Publishers And Blackwell Scientific Publications In Association With The Society For Experimental Biology, Oxford, England (1995).

EXAMINER <i>Diana R</i>	DATE CONSIDERED 1/23/04
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	APPLICANT Hartley et al.	
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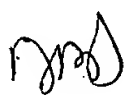

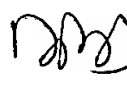
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>39</u>	Padgett, K. A. and Sorge, J. A., "Creating seamless junctions independent of restriction sites in PCR cloning," <i>Gene</i> 168:31-35, Elsevier/North-Holland, Netherlands (February 1996).
	AS	<u>39</u>	Palazzolo, M. J., et al., "Phage lambda cDNA cloning vectors for subtractive hybridization, fusion-protein synthesis and Cre-loxP automatic plasmid subcloning," <i>Gene</i> 88:25-36, Elsevier/North-Holland, Netherlands (1990).
	AT	<u>39</u>	Pan, G., et al., "Ligation of Synthetic Activated DNA Substrates by Site-specific Recombinases and Topoisomerase I," <i>J. Biol. Chem.</i> 268(5):3683-3689, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1993).

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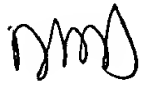


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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	40	Parks, R.J., and Graham, F.L., "A Helper-Dependent System for Adenovirus Vector Production Helps Define a Lower Limit for Efficient DNA Packaging," J. Virol. 71(4):3293-3298, American Society for Microbiology, Washington, D.C. (1997).
	AS	40	Peakman, T. C., et al., "Highly efficient generation of recombinant baculoviruses by enzymatically mediated site-specific in vitro recombination," Nucl. Acids Res. 20:495-500, Oxford University Press, Oxford, England (1992).
	AT	40	Peredelchuk, M.Y., and Bennett, G.N., "A method for construction of E. coli strains with multiple DNA insertions in the chromosome," Gene 187:231-238, Elsevier/North-Holland, Netherlands (1997).


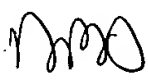

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	AR	41	Pichel, J. G., et al., "Timing of SV40 oncogene activation by site-specific recombination determines subsequent tumor progression during murine lens development," Gene 8:3333-3342, Elsevier/North-Holland, Netherlands (1993).
	AS	41	Pierce, J. C., et al., "A positive selection vector for cloning high molecular weight DNA by the bacteriophage P1 system: Improved cloning efficacy," Proc. Natl. Acad. Sci. USA 89:2056-2060, National Academy of Sciences of the USA, Washington, D.C. (1992).
	AT	41	Podhajska, A. J., et al., "Control of cloned gene expression by promoter inversion in vivo: construction of the heat-pulse-activated att-nutL-p-att-N module," Gene 40:163-168, Elsevier/North-Holland, Netherlands (1985).

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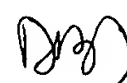

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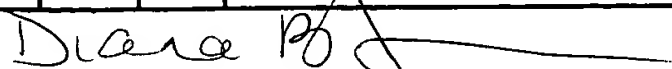
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	AO						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>42</u>	Pósfai, G., et al., "In vivo excision and amplification of large segments of the Escherichia coli genome," Nucl. Acids Res. 22(12):2392-2398, Oxford University Press, Oxford, England (June 1994).
	AS	<u>42</u>	Prasad, P. V., et al., "Substrate Recognition by the 2μm Circle Site-Specific Recombinase: Effect of Mutations within the Symmetry Elements of the Minimal Substrate," Mol. Cell. Biol. 6:4329-4334, American Society for Microbiology, Washington, D.C. (1986).
	AT	<u>42</u>	Qian, X., et al., "Reactions between Half- and Full-FLP Recombination Target Sites: A Model System for Analyzing Early Steps in FLP Protein-Mediated Site-Specific Recombination," J. Biol. Chem 267(11):7794-7805, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1992).

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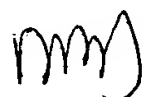

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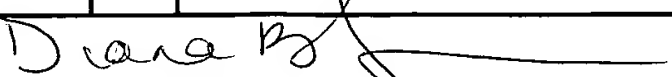
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	43	Reed, R.R., "Transposon-Mediated Site-Specific Recombination: A Defined in Vitro System," Cell 25:713-719, Cell Press, Cambridge, MA (1981).
	AS	43	Reed, R.R. and N.D. Grindley, "Transposon-Mediated Site-Specific Recombination in Vitro: DNA Cleavage and Protein-DNA Linkage at the Recombination Site," Cell. 25:721-728, Cell Press, Cambridge, MA (1981).
	AT	43	Richet, E., et al., "The Interaction of Recombination Proteins with Supercoiled DNA: Defining the Role of Supercoiling in Lambda Integrative Recombination," Cell 46:1011-1021, Cell Press, Cambridge, MA (1986).

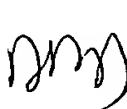
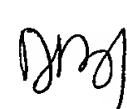

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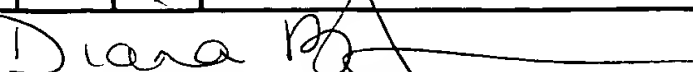
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4680003	APPLICATION NO. 09/517,466
	APPLICANT Hartley et al.	
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U.S. PATENT DOCUMENTS							
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>44</u>	Richet, E., et al., "Synopsis of Attachment Sites during Lambda Integrative Recombination Involves Capture of a Naked DNA by a Protein-DNA Complex," Cell 52:9-17, Cell Press, Cambridge, MA (1988).
	AS	<u>44</u>	Sadowski, P., "Site-Specific Recombinases: Changing Partners and Doing the Twist," J. Bacteriol. 165(2):341-347, American Society for Microbiology, Washington, D.C. (1986).
	AT	<u>44</u>	Sadowski, P.D., "The Flp recombinase of the 2-microns plasmid of Saccharomyces cerevisiae," Prog. Nucl. Acid Res. Mol. Biol. 51:53-91, Academic Press, New York, NY (1995).

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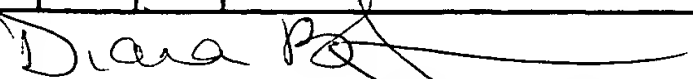
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>45</u>	Sauer, B., et al., "Site-specific insertion of DNA into a pseudorabies virus vector," Proc. Natl. Acad. Sci. USA 84:9108-9112, National Academy of Sciences of the USA, Washington, D.C. (1987).
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	AT	<u>45</u>	Sauer, B. and Henderson, N., "The cyclization of linear DNA in Escherichia coli by site-specific recombination," Gene 70:331-341, Elsevier/North-Holland, Netherlands (1988).

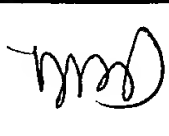

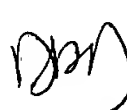
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>46</u>	Sauer, B. and Henderson, N., "Cre-stimulated recombination at loxP-containing DNA sequences placed into the mammalian genome," Nucl. Acids Res. 17:147-161, Oxford University Press, Oxford, England (1989).
	AS	<u>46</u>	Sauer, B., "Manipulation of Transgenes by Site-Specific Recombination: Use of Cre Recombinase," Meth. Enzymol. 225:890-900, Academic Press Inc., New York, NY (1993).
	AT	<u>46</u>	Sauer, B., "Site-specific recombination: developments and applications," Curr. Op. Biotechnol. 5:521-527, Current Biology, Ltd., London, England (October 1994).




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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>47</u>	Sauer, B., "Multiplex Cre/lox recombination permits selective site-specific DNA targeting to both a natural and an engineered site in the yeast genome," <i>Nucl. Acids Res.</i> 24(23):4608-4613, Oxford University Press, Oxford, England (1996).
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	AT	<u>47</u>	Schindelbauer, D., and Cooke, H.J., "Efficient combination of large DNA in vitro: in gel site specific recombination (IGSSR) of PAC fragments containing $\alpha$ satellite DNA and the human HPRT gene locus," <i>Nucl. Acids Res.</i> 25(11):2241-2243, Oxford University Press, Oxford, England (1997).


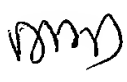

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>48</u>	Schlake, T., and Bode, J., "Use of Mutated FLP Recognition Target (FRT) Sites for the Exchange of Expression Cassettes at Defined Chromosomal Loci," <i>Biochem.</i> 33:12746-12751, American Chemical Society, Washington D.C. (November 1994).
	AS	<u>48</u>	Segall, A. M. and Nash, H. A., "Synaptic intermediates in bacteriophage lambda site-specific recombination: integrase can align pairs of attachment sites," <i>EMBO J.</i> 12:4567-4576, IRL Press Limited, Oxford, England (1993).
	AT	<u>48</u>	Segall, A.M., and Nash, H.A., "Architectural flexibility in lambda site-specific recombination: three alternate conformations channel the attL site into three distinct pathways," <i>Genes to Cells</i> 1:453-463, Blackwell Science Ltd., Oxford, England (1996).


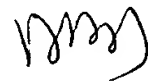

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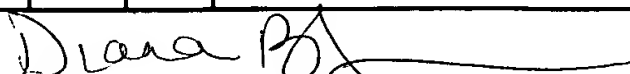
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>49</u>	Senecoff, J.F., et al., "DNA Recognition by the FLP Recombinase of the Yeast 2 $\mu$ Plasmid - A Mutational Analysis of the FLP Binding Site," J. Mol. Biol. 201:405-421, Academic Press, Inc., New York, NY (1988).
	AS	<u>49</u>	Sheffield, P. et al., "Overcoming Expression and Purification Problems of RhoGDI Using a Family of "Parallel" Expression Vectors," Protein Expr. Purific. 15:34-39, Academic Press, New York, NY (1999).
	AT	<u>49</u>	Shuman, S., "Recombination mediated by vaccinia virus DNA topoisomerase I in Escherichia coli is sequence specific," Proc. Natl. Acad. Sci. USA 88:10104-10108, National Academy of Sciences of the USA, Washington, D.C. (1991).


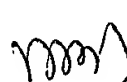

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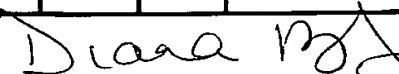
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	50	Sizemore, C., et al., "Quantitative analysis of Tn10 Tet repressor binding to a complete set of tet operator mutants," Nucl. Acids Res. 18(10):2875-2880, Oxford University Press, Oxford, England (1990).
	AS	50	Smith, A. J. H., et al., "A site-directed chromosomal translocation induced in embryonic stem cells by Cre-loxP recombination," Nat. Gen. 9:376-385, Nature Publishing Co., New York, NY (April 1995).
	AT	50	Snaith, M.R., et al., "Multiple cloning sites carrying loxP and FRT recognition sites for the Cre and FLP site-specific recombinases," Gene 166:173-174, Elsevier/North-Holland, Netherlands (December 1995).

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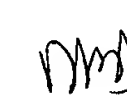
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>51</u>	Spengler, S.J., et al., "The Stereostructure of Knots and Catenanes Produced by Phage λ Integrative Recombination: Implications for Mechanism and DNA Structure," Cell 42:325-334, Cell Press, Cambridge, MA (1985).
	AS	<u>51</u>	Sternberg, N., et al., "Site-specific Recombination and Its Role in the Life Cycle of Bacteriophage P1," Cold Spring Harbor Symp. Quant. Biol. 45:297-309, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1981).
	AT	<u>51</u>	Sternberg, N., et al., "Bacteriophage P1 cre Gene and its Regulatory Region," J. Mol. Biol. 187:197-212, Academic Press, Inc., New York, NY (1986).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	52	Sternberg, N., "Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs," Proc. Natl. Acad. Sci. USA 87:103-107, National Academy of Sciences of the USA, Washington, D.C. (1990).
	AS	52	Storck, T., et al., "Rapid construction in yeast of complex targeting vectors for gene manipulation in the mouse," Nucl. Acids Res. 24:4594-4596, Oxford University Press, Oxford, England (1996).
	AT	52	Strathmann, M., et al., "Transposon-facilitated DNA sequencing," Proc. Natl. Acad. Sci. USA 88:1247-1250, National Academy of Sciences of the USA, Washington, D.C. (1991).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>DM</i>	AR	53	Thompson, J. F., et al., "Mutations in an Integration Host Factor-Binding Site: Effect on Lambda Site-Specific Recombination and Regulatory Implications," J. Bacteriol. 168:1343-1351, American Society for Microbiology, Washington, D.C. (1986).
<i>Cell</i>	AS	53	Thompson, J.F., et al., "Helical-repeat dependence of integrative recombination of bacteriophage $\lambda$ : Role of the P1 and H1 protein binding sites," Proc. Natl. Acad. Sci. USA 85:6323-6327, National Academy of Sciences of the USA, Washington, D.C. (1988).
<i>DM</i>	AT	53	Thorpe, H.M., and Smith, M.C.M., "In vitro site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family," Proc. Natl. Acad. Sci. USA 95:5505-5510, National Academy of Sciences of the USA, Washington, D.C. (May 1998).

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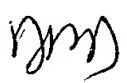

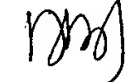
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>54</u>	Tsurushita, N., et al., "Phage display vectors for in vivo recombination of immunoglobulin heavy and light chain genes to make large combinatorial libraries," Gene 172:59-63, Elsevier/North-Holland, Netherlands (1996).
	AS	<u>54</u>	Vanin, E.F., et al., "Development of High-Titer Retroviral Producer Cell Lines by Using Cre-Mediated Recombination," J. Virol. 71:7820-7826, American Society for Microbiology, Washington, D.C. (1997).
	AT	<u>54</u>	Waterhouse, P., et al., "Combinatorial infection and in vivo recombination: a strategy for making large phage antibody repertoires," Nucl. Acids Res. 21(9):2265-2266, Oxford University Press, Oxford, England (1993).

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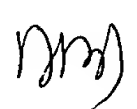

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	AS	55	Wasserman, S.A., et al., "The helical repeat of double-stranded DNA varies as a function of catenation and supercoiling," Nature 334:448-450, Macmillan Publishers Ltd., London, England (1988).
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FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.4680003

APPLICATION NO.  
09/517,466

APPLICANT  
Hartley et al.

FILING DATE  
March 2, 2000

GROUP  
1655




**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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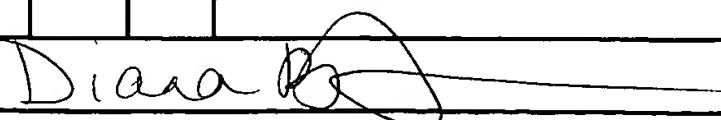
**FOREIGN PATENT DOCUMENTS**

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	AM						Yes No
	AN						Yes No
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>56</u>	Weisberg, R. A., and Landy, A., "Site-specific Recombination in Phage Lambda," in: "Lambda II," Hendrix, R. W. et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y., pp. 211-250 (1983).
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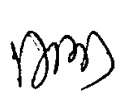


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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>58</u>	Yoon, Y.G., et al., "Cre/loxP-mediated in vivo excision of large segments from yeast genome and their amplification based on the 2 $\mu$ m plasmid-derived system," Gene 223:67-76, Elsevier/North-Holland, Netherlands (1998).
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	AT	<u>61</u>	Mackie, G.A., "Nucleotide Sequence of the Gene for Ribosomal Protein S20 and Its Flanking Regions," J. Biol. Chem. 256:8177-8182, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1981).




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	AR	<u>62</u>	Nomura, M., et al., "Regulation of the Synthesis of Ribosomes and Ribosomal Components," Ann. Rev. Biochem. 53:75-117, Annual Reviews, Inc., Palo Alto, CA (1984).
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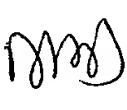

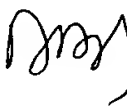
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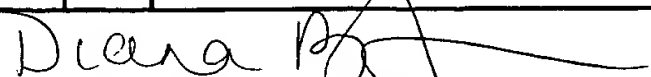
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	AM						Yes No
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	AO						Yes No
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	AR	<u>63</u>	Jayaram, M., "The Int family of site-specific recombinases: Some thoughts on a general reaction mechanism," <i>J. Genet.</i> 67:29-36, Indian Academy Of Sciences Bangalore, Bangalore, India (1988).
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	AT	<u>63</u>	Pending U.S. Non-Provisional Patent Application No. 09/177,387, filed October 23, 1998.

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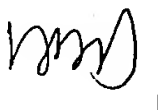

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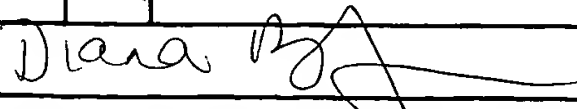
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	<u>64</u>	Pending U.S. Non-Provisional Patent Application No. 09/233,492, filed January 20, 1999.
	AS	<u>64</u>	Pending U.S. Non-Provisional Patent Application No. 09/296,280, filed April 22, 1999.
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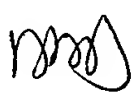


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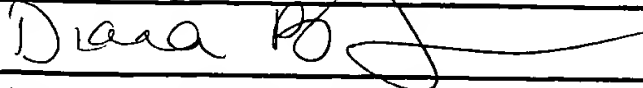
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	AR	65	Pending U.S. Non-Provisional Patent Application No. 09/432,085, filed November 02, 1999.
	AS	65	Pending U.S. Non-Provisional Patent Application No. 09/438,358, filed November 12, 1999.
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	AR	<u>66</u>	Pending U.S. Non-Provisional Patent Application No. 09/518,188, filed March 2, 2000.
	AS	<u>66</u>	Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000.
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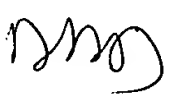
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